

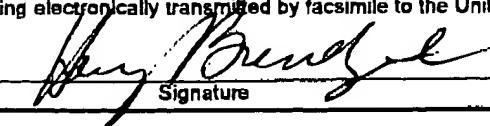
Henry Brendzel

<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>		Complete if Known	
		Application Number	09/849,737
		Filing Date	5/4/2001
		First Named Inventor	Qian Huang
		Examiner Name	Ellas Desta
		Group/Art Unit	2857
Total number of pages in this Submission: this page, plus <b>77</b>		Attorney Docket ID	Huang 2000-0221

ENCLOSURES (check all that apply)			
<input type="checkbox"/> Fee Form ( <input type="checkbox"/> Check included)	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> Postcard(s)	
<input type="checkbox"/> Fee Form not included, but should a fee be due, the Commissioner is Authorized to charge Deposit Account No 500732 of Henry T. Brendzel	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Small Entity Statement	
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<input type="checkbox"/> After Final	<input type="checkbox"/> Petition Routing Slip (TO/SB/69) and Accompanying Petition	<input type="checkbox"/> After Allowance Communication to group	
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Huang 2000-0221

IN THE UNITED STATES  
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## Patent Application

Inventor(s) Qian Huang Case Name Huang 2000-0221  
 Zhu Liu  
 Filing Date 5/4/2001 Serial No. 09/849,737  
 Examiner Elias Desta Group Art Unit 2857  
 Title A New Distance Measure for Probability Distribution Function of Mixture  
 Type

2/10  
 MSK  
 ASSISTANT COMMISSIONER FOR PATENTS  
 WASHINGTON, D.C. 20231

SIR:

## AMENDMENT

In response to an Office action dated November 6, 2002, please amend the above-identified application as follows:

## IN THE CLAIMS:

1. A method executed in a computer of computing a distance measure between first and second mixture type probability distribution functions,  $G(x) = \sum_{i=1}^N \mu_i g_i(x)$ , and

$H(x) = \sum_{k=1}^K \gamma_k h_k(x)$ , pertaining to audio data, the improvement characterized by:

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said distance measure being

$$D_M(G, H) = \min_{\omega = \{\omega_{ik}\}} \sum_{i=1}^N \sum_{k=1}^K \omega_{ik} d(g_i, h_k),$$

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where  $d(g_i, h_k)$  is a function of the distance between a component,  $g_i$ , of the first probability distribution function and a component,  $h_k$ , of the second probability distribution function where

$$\sum_{i=1}^N \mu_i = 1 \text{ and } \sum_{k=1}^K \gamma_k = 1,$$

and

$$\omega_{ik} \geq 0, 1 \leq i \leq N, 1 \leq k \leq K,$$

and